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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/643,762	08/19/2003	Andrew Kent	05986/000M673-US0 3914	
7278	7590 07/01/2005		EXAMINER	
DARBY & DARBY P.C.			NGUYEN, VIET Q	
P. O. BOX 5257 NEW YORK, NY 10150-5257			ART UNIT	PAPER NUMBER
			2827	
			DATE MAILED: 07/01/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	1 2 1: 4: 1					
Supplemental	Application No.	Applicant(s)				
Office Action Summary	10/643,762 Examiner	KENT ET AL. Art Unit				
•	Viet Q. Nguyen	2827				
The MAILING DATE of this communication app	<u> </u>					
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailting date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl' If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for alloward	Responsive to communication(s) filed on <u>Pre-amendment filed on 5/24/2005</u> . This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) ⊠ Claim(s) 1-36 is/are pending in the application 4a) Of the above claim(s) is/are withdraws 5) ⊠ Claim(s) 1-20 and 23-36 is/are allowed. 6) ⊠ Claim(s) 21 is/are rejected. 7) ⊠ Claim(s) 22 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or 	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	epted or b) objected to by the Education of the Education of the drawing (s) be held in abeyance. See tion is required if the drawing (s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list 	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>5/12/05 & 5/24/05</u>. 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

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DETAILED ACTION

- 1. This action responses to the newly filed pre-amendment on 5/24/2005. Since the last office action (dated 6/14/2005) only responds to original claims (1-33, filed on 8/19/2003) based on the previous restriction action dated 1/10/2005; and because the newly submitted claims 34-36 (filed 5/24/2005) in the pre-amendment has not been timely entered and previously considered by the examiner, this action will supplement the last office action with all present claims 1-36 as now pending.
- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

3. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Sharma** et al (6,750,491).

The reasons for this claim rejection have been fully set forth in the last office action dated 6/14/2005. See last office action paper.

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4. Claim 22 is objected as being dependent upon claim 21; however, it contains allowable subject matter with regard to the claimed feature of "applying current in a sub-nanosecond" of time, which is not clearly or fairly suggested elsewhere in the prior arts.

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5. As indicated in last office action, other claims **1-20**, **22-36** all contain allowable subject matter over prior ads of record with regard to the claimed features of "a read-out magnetic layer", "sub-nanosecond current pulses", and the specific magnetic-material groups for making such magnetic layers, etc.

Particularly, prior arts do not clearly show the particular configuration of independent claims 1 & 14 such as "a second non-magnetic layer that spatially separates said free magnetic layer and said read-out magnetic layer such that the mutual magnetic interaction between said free layer and said read-out layer is minimized".

Furthermore, prior arts also do not teach the particular claimed method as recited in independent claim 23, for example, e.g., "forming a read-out magnetic layer with a magnetization vector with a fixed magnetization direction on said second non-magnetic layer".

Other dependent claims are also allowable as they are dependent upon their respective base claims as well.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Viet Q. Nguyen whose telephone number is (571) 272-1788. The examiner can normally be reached on 7am-6pm (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoai Ho can be reached on (571) 272-1777. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Viet Q Nguyen Primary Examiner Art Unit 2827

V. NTWELEN

V. Nguyen 6/26/2005